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# Pathway to Success! Implementing a Clinical Pathway to Improve SICU CABG Outcomes

Rosy Canete-Yoham

*South Miami Hospital*, [rosyc@baptisthealth.net](mailto:rosyc@baptisthealth.net)

Edwin Vides

*South Miami Hospital*, [edwinvi@baptisthealth.net](mailto:edwinvi@baptisthealth.net)

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# PATHWAY TO SUCCESS!

## IMPLEMENTING A CLINICAL PATHWAY TO IMPROVE SICU CABG OUTCOMES

AUTHORS: ROSY CANETE-YOHAM MSN, ARNP-BC, CCRN-CSC AND EDWIN VIDES MSN, RN CRITICAL CARE SERVICES, SOUTH MIAMI HOSPITAL

### Background

- Prolonged stay in the Intensive Care Unit (ICU) is associated with high mortality, morbidity and costs, with respiratory problems as the leading complication
- The Society of Thoracic Surgeons (STS) is a national reporting database that benchmarks South Miami Hospital (SMH) Critical Care on the following indicators:
  - ICU length of stay (LOS) <48 hours
  - Ventilator Time <6hours.
- ICU CABG Length of stay in 2011 was 75 hours.
- Median Ventilator time was 4.8 Hours.
- This prompted a need to develop a guideline for all disciplines involved in the care which lead to improvements in patient care, utilization of resources and outcomes.

### Goals

- Develop and implement an evidence-based post cardiac surgery clinical pathway to improve coordination of care, utilization of resources and patient outcomes.
- Successful outcomes are defined as:
  - CABG ICU LOS <48 hours
  - CABG Ventilator Time < 6 hours with an internal stretch goal of <4 hours.

### Key Stakeholders

- Critical Care Department
- Respiratory Therapy Department
- Pharmacy Department
- Baptist Health Cardiac & Thoracic Surgical Group
- SMH CT Surgery Taskforce Committee Members
- Physical Therapy Department
- Cardiac Rehabilitation Department
- Dietary Department

### Methods

**PLAN**  
OCT. 2012

- Establish an interdisciplinary team of surgeons, ARNPs, pharmacists, nurses, rehabilitation specialists and respiratory therapists.
- Set clear daily goals from immediate post-operative time until discharge.
- Develop a Cardiac Surgery Clinical Pathways
- Designate a dedicated step-down area for post open heart patients

**DO**  
MAY 2013

- Designate CCU as the step-down unit for post open heart patients
- Educate the Critical Care Staff on pathways
- Educate the Critical Care Nurses on care of the post open heart patient in the ICU and Step-down unit.
- Create a clinical dashboard to trend patient data and outcomes.

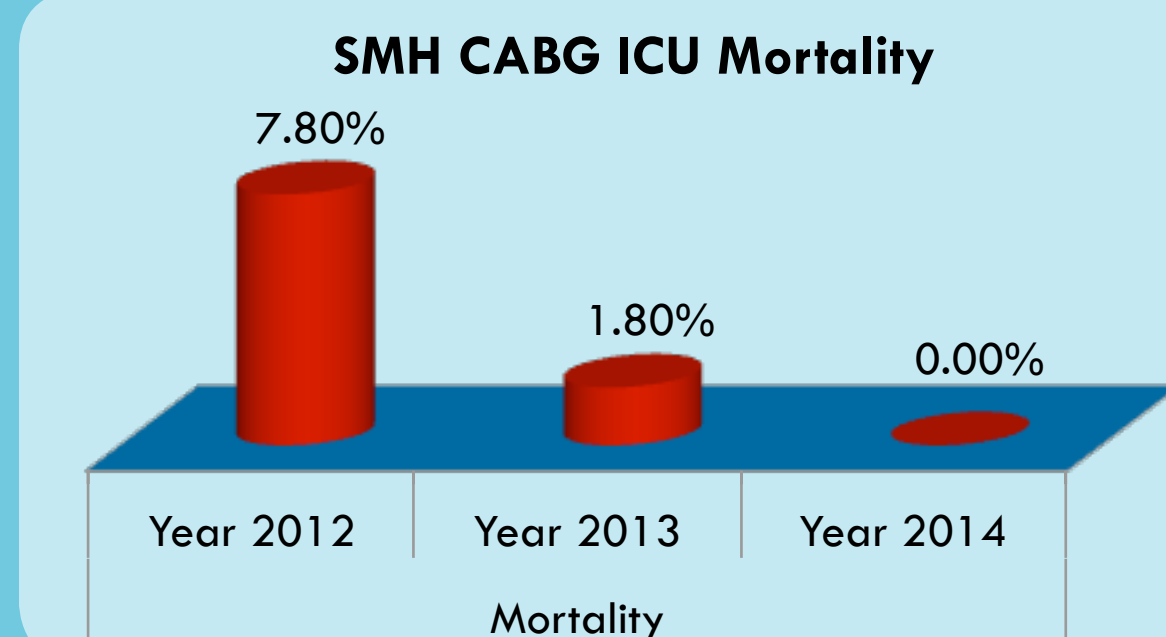
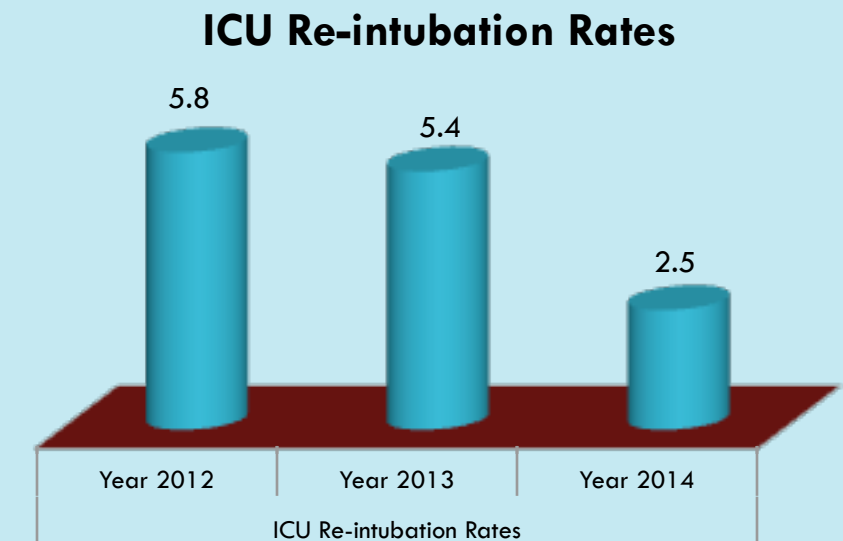
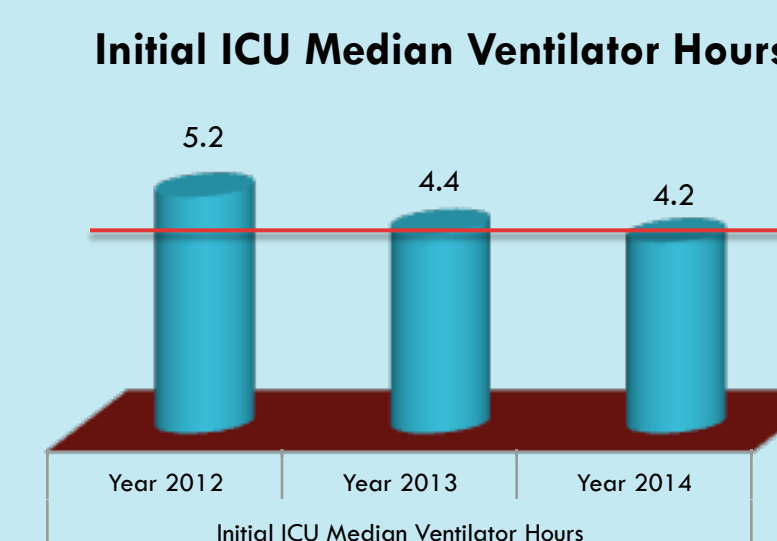
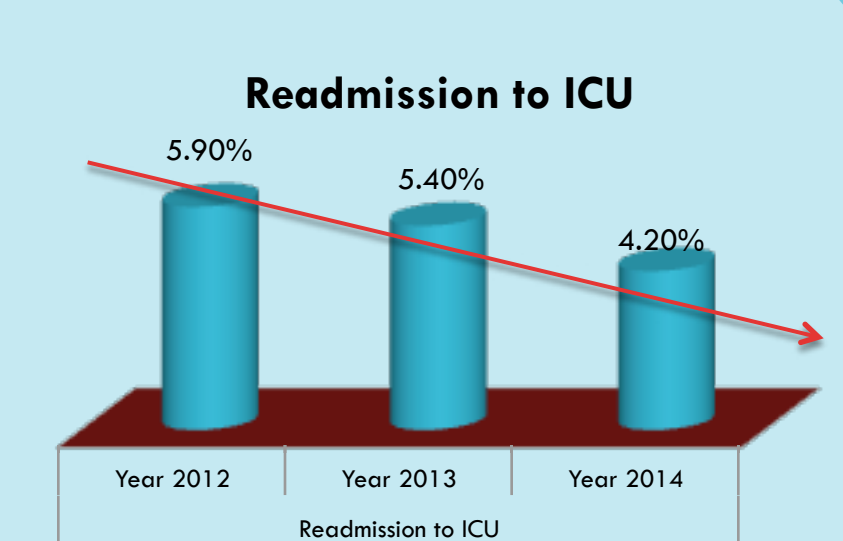
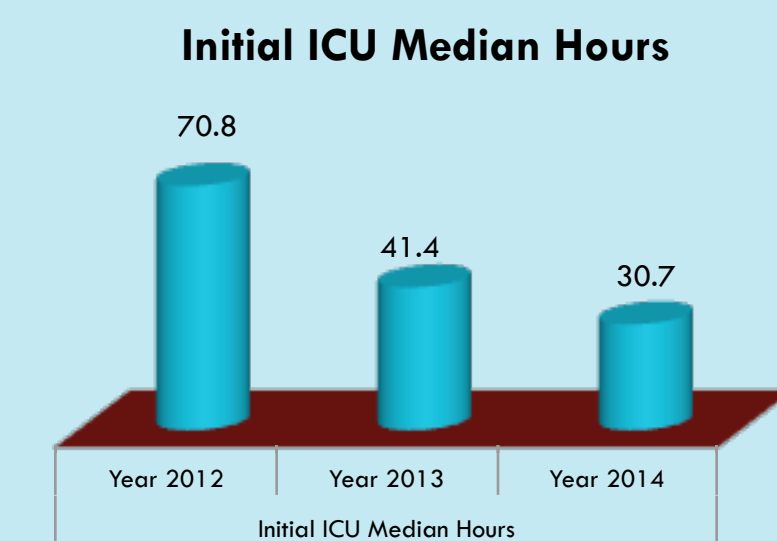
**CHECK**  
JUN. 2013 -  
PRESENT

- Monitor compliance with utilization of Clinical Pathway via daily chart audits by leadership team.
- Assess patient tolerance and adherence to the pathway daily with the Critical Care team during Interdisciplinary Rounds.
- Discuss unit progress and outcomes monthly at the SMH Cardiac Surgery Taskforce meeting

**ASSESS**  
NOV. 2013 -  
PRESENT

- Utilizing the SICU Cardiac Surgery Clinical Pathway on CABG patients led to positive patient outcomes by eliminating variations in care.
- Based on this success, it was decided that other Cardiac Surgery patients would benefit from the pathway and the population was extended to include Valves and Combined CABG/Valve Procedures.

### Society of Thoracic Surgeons (STS) Adult Cardiac Surgery Database Isolated CABG ICU Data



South Miami Heart Center SICU Cardiac Surgery Clinical Pathway				Place patient in room
Day	Operative Day Post-Operative Day 1	Operative Day Post-Operative Day 2	Day	Post-Operative Day 3 Post-Operative Day 4
Activity	<ul style="list-style-type: none"><li>• Bathed with VSD or DSD in bed</li><li>• Turned 3 times and repositioned</li></ul>	<ul style="list-style-type: none"><li>• Chained post-op to bed</li><li>• Ambulated with VSD and IV</li><li>• DSD available as bedside walking device if surgery</li></ul>	Day	<ul style="list-style-type: none"><li>• DSD or B or in VSD or C or IV</li><li>• Ambulated with VSD and/or ambulation and OT</li><li>• DSD or B or in VSD or C or IV</li><li>• Turned 3 times and repositioned</li></ul>
Medications	<ul style="list-style-type: none"><li>• Medication Administration</li><li>• Medication assessment BSC or assessed 48 hours from time of surgery</li><li>• Medication assessment BSC or assessed 48 hours from time of surgery</li><li>• Medication assessment BSC or assessed 48 hours from time of surgery</li></ul>	<ul style="list-style-type: none"><li>• Current post-op medications</li><li>• Discontinue 1 medication</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>	Day	<ul style="list-style-type: none"><li>• Continue medication</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>
Goals	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>	Day	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>
Notes	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>	Day	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>
Def of Discontinuation	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>	Day	<ul style="list-style-type: none"><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li><li>• 16-24 hours post-op with VSD or IV until post-op protocol</li></ul>

Day	Operative Day Post-Operative Day 1	Post-Operative Day 2
Activity	• Patient assessment • Vital signs • Pain management • Fluid management • Medication management • Respiratory management • Hemodynamic management • Laboratory management • Patient education • Patient/family assessment • Patient/family teaching • Patient/family support • Patient/family advocacy • Patient/family collaboration • Patient/family partnership • Patient/family engagement • Patient/family involvement • Patient/family participation • Patient/family contribution • Patient/family influence • Patient/family impact • Patient/family legacy • Patient/family heritage • Patient/family tradition • Patient/family culture • Patient/family values • Patient/family beliefs • Patient/family attitudes • Patient/family behaviors • Patient/family actions • Patient/family reactions • Patient/family responses • Patient/family feelings • Patient/family thoughts • Patient/family emotions • Patient/family experiences • Patient/family memories • Patient/family dreams • Patient/family hopes • Patient/family wishes • Patient/family desires • Patient/family needs • Patient/family wants • Patient/family requirements • Patient/family expectations • Patient/family aspirations • Patient/family goals • Patient/family objectives • Patient/family outcomes • Patient/family results • Patient/family achievements • Patient/family accomplishments • Patient/family successes • Patient/family triumphs • Patient/family victories • Patient/family conquests • Patient/family battles • Patient/family wars • Patient/family struggles • Patient/family challenges • Patient/family obstacles • Patient/family barriers • Patient/family hindrances • Patient/family impediments • Patient/family setbacks • Patient/family reversals • Patient/family disappointments • Patient/family frustrations • Patient/family irritations • Patient/family annoyances • Patient/family bothers • Patient/family nuisances • Patient/family pests • Patient/family plagues • Patient/family scourges • Patient/family plagues • Patient/family scourges • Patient/family plagues • Patient/family scourges	• Patient assessment • Vital signs • Pain management • Fluid management • Medication management • Respiratory management • Hemodynamic management • Laboratory management • Patient education • Patient/family assessment • Patient/family teaching • Patient/family support • Patient/family advocacy • Patient/family collaboration • Patient/family partnership • Patient/family engagement • Patient/family involvement • Patient/family participation • Patient/family contribution • Patient/family influence • Patient/family impact • Patient/family legacy • Patient/family heritage • Patient/family tradition • Patient/family culture • Patient/family values • Patient/family beliefs • Patient/family attitudes • Patient/family behaviors • Patient/family actions • Patient/family reactions • Patient/family responses • Patient/family feelings • Patient/family thoughts • Patient/family emotions • Patient/family experiences • Patient/family memories • Patient/family dreams • Patient/family hopes • Patient/family wishes • Patient/family desires • Patient/family needs • Patient/family wants • Patient/family requirements • Patient/family expectations • Patient/family aspirations • Patient/family goals • Patient/family objectives • Patient/family outcomes • Patient/family results • Patient/family achievements • Patient/family accomplishments • Patient/family successes • Patient/family triumphs • Patient/family victories • Patient/family conquests • Patient/family battles • Patient/family wars • Patient/family struggles • Patient/family challenges • Patient/family obstacles • Patient/family barriers • Patient/family hindrances • Patient/family impediments • Patient/family setbacks • Patient/family reversals • Patient/family disappointments • Patient/family frustrations • Patient/family irritations • Patient/family annoyances • Patient/family bothers • Patient/family nuisances • Patient/family pests • Patient/family plagues • Patient/family scourges • Patient/family plagues • Patient/family scourges • Patient/family plagues • Patient/family scourges